623
U.S. COAST GUARD
623

PLATE NO. 1
COVER

BOOKLET OF GENERAL PLANS WMEC 623–STEADFAST

DWG. NO. 627WMEC–085–231

GENERAL DESCRIPTION

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 2

LIFE BOAT AND DAVIT DATA

ONE (1) 23' CUTTER BOAT – OTH (STBD) (11,000# CAP.)
ONE (1) 8M PVC RIGID HULL INFLATABLE BOAT.
ONE (4) 8' RESCUE BOATS W/ DAVITS (1 PORT, 3 AFT).
ONE (1) 24' CUTTER BOAT – –LARGE (PORT)
ONE (1) SINGLE POINT DAVIT CRANE W/CONTROL CONSOLE (5700# CAP.)

ACCOMMODATIONS

	NORMAL
OFFICERS	12
CPO	8
CREW	66
TOTAL	86

ARMAMENT

INSTALLED:
ONE (1) 25 MM GUN; MK. 38 MODEL
TWO (2) 50 CAL. MACHINE GUNS

STEERING GEAR DATA

ELECTRO–HYDRAULIC FOR TWIN RUDDER APPLICATION
THE DESIGN PRESSURE FOR THE HYDRAULIC SYSTEM SHALL NOT EXCEED 2000 PSIG.

REFRIGERATION PLANT

TWO (2) REFRIGERATION CONDENSING UNITS, WATER COOLED TYPE, APPROX. ONE (1) TON CAPACITY.

DECK MACHINERY DATA

ONE (1) ELECTRIC MOTOR DRIVEN WARPING CAPSTAN (2400# AT 110 FPM/ 700# AT 57 FPM.
TWO (2) CAPSTAN WHOLESS–W/2800# STOCKLESS ANCHOR AND 105 FA OF 1 3/8" DI–LOK CHAIN EACH (CAPSTAN–4000# AT 40 FPM.)

EQUIPMENT

TWO (2) 900 LB. PORTABLE DAVITS.
ONE (1) 1500 LB. PORTABLE DAVIT.

DEADWEIGHT DISPLACEMENT & LIGHTSHIP

LIGHTSHIP	822 LT (EST)
MINIMUM OPERATING CONDITION	1011 LT (EST)
FULL LOAD CONDITION	1070 LT (EST)

NOTE: FOR THE ABOVE INFORMATION REFER TO THE LATEST STABILITY TEST REPORT.

HOLD AND TANK CAPACITIES

TOTAL FUEL CAPACITY	48,881 GAL.
TOTAL FW CAPACITY	11,694 GAL.
TOTAL JP–5 FUEL CAPACITY	4,663 GAL.
TOTAL LUBE OIL CAPACITY	2,090 GAL.

POWER PLANT AND SPEED

DIESEL ENGINES TWO (2)	2500 H.P. EACH
SHAFT HORSEPOWER (TOTAL)	5000 H.P. EACH
SUSTAINED SPEED	18 KNOTS

PROPELLER

NUMBER OF BLADES	4
DIAMETER IN FEET	7'–6"
WEIGHT, ESTIMATED	5120 LBS. EACH
WEIGHT, ESTIMATED W/SHAFTING	21,427 LBS.

GENERATING PLANT

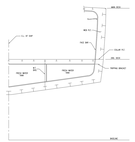
TWO (2) 250 KW AT .8 POWER FACTOR DIESEL GENERATOR
3–PHASE, 60 CYCLE, 450 VOLT AC.

PRINCIPAL CHARACTERISTICS

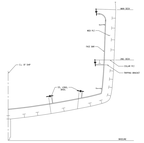
LENGTH OVERALL	210'–6"
LENGTH ON DESIGN WATERLINE	200'–0"
BEAM, EXTREME MOLDED	34'–6"
DEPTH, MOLDED AMIDSHIP DECK AT MIDSHIPS	19'–6"
DESIGN DRAFT, MAXIMUM	12'–6"
HIGHEST PROJECTION ABOVE KEEL MIDSHIPS	87'–0"

GENERAL DESCRIPTION
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: NONE

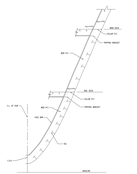
DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 3



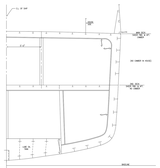
SIDE FRAME 180 AFT



SIDE FRAME 148 AFT



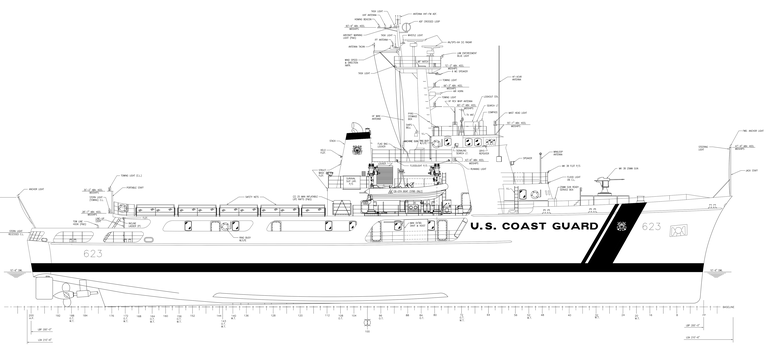
SIDE FRAME 26 FWD



SECTION AT FRAME 102

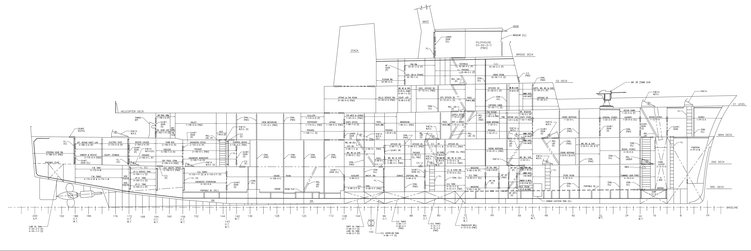
TYPICAL SECTIONS
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/4"=1'–0"

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 4



OUTBOARD PROFILE
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'–0"

DWG. NO. 627WMEC–085–231
SHEET NO. 1 OF 2
PLATE NO. 5



INBOARD PROFILE
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'–0"

REV	SHT	ZONE	REVISIONS DESCRIPTION	BY	DATE	APRVD.
A	1	ALL	ADDED APPLICABILITY AND UPDATED TITLE BLOCK AW 210 PARENT SERIES	TJD	8/28/99	TGB
B	1 2 3	5–F 13–B 15–E	STBD SIDE REMOVED THE WEB AND ADDED A 4 METER BOAT PORT SIDE REMOVED THE AKON 6 METER BOAT AND REPLACED WITH CB–L. UPDATED THE LIFE BOAT AND DAVIT DATA CHART	JGF	5/31/11	LCDR CHIEF ENG. BRANCH CHIEF MEC PL

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USCG TMD, CURTIS BAY
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	DETAILS	DATE
DESIGN		
DRAWN	TJD	1–18–99
CHECKED	TGB	1–18–99
1st REVISION (A)		11–1–99
	CHIEF ENGL BRANCH	

U.S.C.G. HEADQUARTERS WASHINGTON, D.C. 20593
OFFICE OF NAVAL ENGINEERING

210' MMA "B" CLASS
BOOKLET OF GENERAL PLANS

U.S.C.G. APPROVAL
R.E.HAM (LT/COMDR) USCG
CHIEF ENGINEERING DIVISION

SIZE H | FSCM CAGE NO. 81340 | U.S.C.G. DRAWING NO. 627WMEC–085–231 | REV B
SCALE AS NOTED | 19.8 SQ FT | SHEET 1 OF 2

623 – STEADFAST
HULL NOT VERIFIED NAME
APPLICABILITY LIST

DWG. NO. 627WMEC–085–231 | SH 1 | REV B

PLAN DISTRIBUTION

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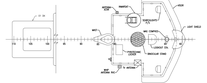
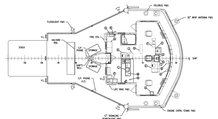
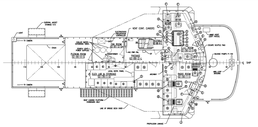


PILOT HOUSE TOP



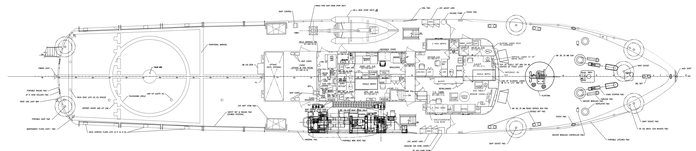
BRIDGE DECK



02 DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 12

02 DECK & ABOVE
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'-0"



01 DECK

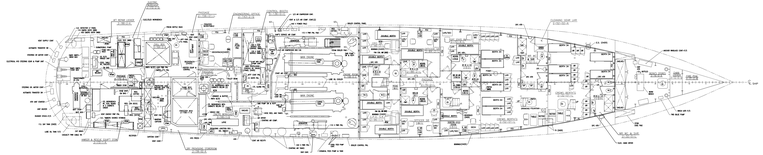
DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 9

01 DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'-0"

MAIN DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 8

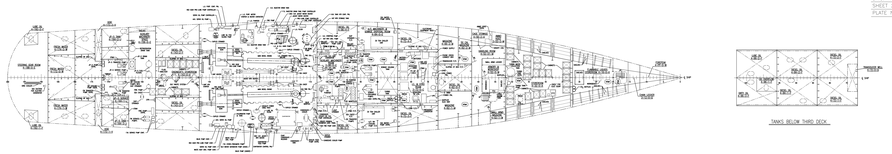
MAIN DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'-0"



SECOND DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 7

SECOND DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'-0"



THIRD DECK

TANKS BELOW THIRD DECK

DWG. NO. 627WMEC-085-231
SHEET 2 of 2
PLATE No. 6

THIRD DECK
SHIP'S NAME: STEADFAST
SHIP'S HULL: WMEC 623
SCALE: 1/8"=1'-0"

U.S. COAST GUARD HEADQUARTERS WASHINGTON, D.C. 20593
OFFICE OF NAVAL ENGINEERING

210 MMA "Ex" CLASS
BOOKLET OF GENERAL PLANS

SIZE	FSCM CAGE NO	U.S.C.G. DRAWING NO.	REV
H	81340	627WMEC-085-231	B
SCALE: AS NOTED		33 SQ FT	SHEET 2 OF 2

DWG. NO. 627WMEC-085-231 Sh 2 REV B

PLOT SCALE: 1.00"=1'-0"

FILE CODE: 627-WMEC_85_231_2_B.DWG